

7.2.3.7

Jensen Property Berm

The proposed berm around the Jensen property will provide for diversion of drainage from this area eastward along the railroad loop to the 24" culvert beneath the main line of the railroad at the southeast corner of the property. Cross-section of the proposed berm is shown on Figure 7-9, and location is shown on Plate 3-2.

The berm is more than adequate to divert the entire runoff from Area 5e shown on Figure 7-5 (p.7-65) and described on Table 7-17 (p.7-69), which shows an expected runoff of only 0.318 acre feet with a design peak flow of 0.81 cfs (Culvert C-1, p.7-88a),. Culvert C-1 will remain in place to divert drainage from the disturbed area remaining between the Jensen Property and the railroad loop.

7.2.3.8

Plant Overflow Pond

This pond will be constructed in the disturbed, material storage area just south of Sediment Pond 6. The pond will intercept wash down water from the preparation plant, where it can be held and directed to Sediment Pond 6 where it is filtered and recirculated to the plant washing system. This will prevent overflow water from using capacity from the Sediment Ponds 1, 2 and 3, and allows for total re-use of overflow water. The pond is projected to be approximately 60' long x 30' wide x 5' deep, as shown on Plate 7-4C. Excavated material will be placed in a berm around the pond. Once constructed, the pond will be inspected and certified as required for impoundments.

7-87j

File in:

- ☐ Confidential
- ☐ Shelf
- ☒ Expandable

Refer to Record No 0021 Date 12-5-07
In CR070022, Boat Incoming
For additional information

APPENDIX 3-10

Plant Overflow Pond

Appendix 3-10 Plant Overflow Pond

1. Introduction:

This appendix will provide design details and reclamation cost estimate for the plant overflow pond. This pond is a replacement of a pond previously used at the site. The previous pond was decommissioned and backfilled in 2002 when it was no longer needed.

2. Specifications:

This pond will be constructed in the disturbed, material storage area just south of Sediment Pond 6. The pond will intercept wash down water from the preparation plant, where it can be held and directed to Sediment Pond 6 where it is filtered and recirculated to the plant washing system. This will prevent overflow water from using capacity from the Sediment Ponds 1, 2 and 3, and allows for total re-use of overflow water. The pond is projected to be approximately 60' long x 30' wide x 5' deep, as shown on Plate 7-4C. Excavated material will be placed in a berm around the pond. Once constructed, the pond will be inspected and certified as required for impoundments.

3. Additional Construction Requirements:

- a. The total area for the pond and berms will be approximately 5400 sq.ft. as shown on Plate 7-4C. The top 12" of coal & soil will be removed from this area (approximately 200 cubic yards), and will be stockpiled, protected and seeded as topsoil per the approved plan. The salvaged material will be placed on the flat surface and slopes of the pond berm and signed as topsoil.
- b. During construction, Savage Services Corporation will describe the soil profile to a depth of 5 feet and sample the surface coal accumulation and the underlying surface soil from 0 - 6 inches, 6 - 12 inches, 12 - 24 inches and 24 - 48 inches. The samples will be analyzed for texture, pH,

Electrical Conductivity, and Sodium Adsorption Ratio.

- c. Maps will show the pond as if it were installed rather than as proposed.
- d. Plate 3-2 will show the pond and surface flow control.

4. Reclamation Cost Estimate

The reclamation cost estimate for the plant overflow pond is based on the costs used in Appendix 3-5 "Reclamation Cost Estimate" updated in August 2006. The only additional reclamation costs for this pond are for removal of the inlet and outlet pipes, backfilling and replacement of topsoil. Reseeding is included in the overall reclamation estimate in Appendix 3-5.

Calculations :

<u>Item</u>	<u>Material</u>	<u>Quantity</u>	<u>Cost/Unit</u>	<u>Cost</u>
Excavate	Culverts	200' x 2' x 2'	\$1.74/CY	\$ 51.56
Backfill	Culverts	200' x 2' x 2'	\$ 1.58/CY	\$ 42.66
Backfill	Pond	333 CY	*\$ 1.99/CY	\$ 662.67
Topsoil	Pond	200 CY	*\$ 1.47/CY	\$ 293.34
Ripping	Pond	0.12 ac.	*\$ 205.22/ac.	\$ 24.63
Foreman	Pond	8 hours	\$ 55.45/Hr.	\$ 443.60
				\$1,518.46

* Average price per CY or acre per Appendix 3-5.

Savage Industries, Inc.
Savage Coal Terminal

D. Summary :

The total projected reclamation cost for the plant overflow pond is \$1,518.46. The Savage Coal Terminal is presently bonded for \$2,525,000 in 2007 dollars. The required bond for reclamation is \$2,412,000. This proposed addition, along with approved additions (stacking tube, settling ponds, conveyor #13), would raise the required bond amount to \$2,416,605, which is still \$108,395 less than the bond posted for the site.